

ABSTRACT

A method of synchronizing a pulsed drive signal applied to a DC fan motor to the TACH output of the motor is described. DC motors include a rotor that rotates in a path defined by a plurality of magnetic poles and the method defines an ideal TACH output for a specific rotation speed of the rotor of the DC fan and changes the period of the drive signal if the monitored TACH output does not match the ideal TACH output such that the period of the drive signal matches the time taken for the fan to rotate through one magnetic pole of the fan.